

SEQUENCE LISTING

<110> Dodgson, Kirsty Jane

<120> Method and Kit for Identifying Vancomycin-Resistant Enterococcus

<130> 875.092US1

<160> 17

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1768

<212> DNA

<213> Enterococcus faecium

<400> 1

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| caaatacaga | gaatgaagca | aggagcattt | cttatcaata | ctgggcgcgcg | tccacttgta | 120 |
| gatacctatg | agttgggttaa | agcattagaa | aacgggaaac | tgggcggtgc | cgcatgggat | 180 |
| gtattggaag | gagaggaaga | gtttttctac | tctgattgca | cccaaaaacc | aattgataat | 240 |
| caatttttac | ttaaaacttca | aagaatgcct | aacgtgataa | tcacaccgca | tacggcctat | 300 |
| tataccgagc | aagcgttgcg | tgataccggt | gaaaaaacca | ttaaaaactg | tttggatttt | 360 |
| gaaaggagac | aggagcatga | atagaataaa | agttgcaata | ctgtttgggg | gttgctcaga | 420 |
| ggagcatgac | gtatcggtaa | aatctgcaat | agagatagcc | gctaacatta | ataaagaaaa | 480 |
| atacgagccg | ttatacattg | gaattacgaa | atctgggtgta | tggaaaatgt | gcgaaaaacc | 540 |
| ttgcgcggaa | tgggaaaacg | acaattgcta | ttcagctgta | ctctcgccgg | ataaaaaaat | 600 |
| gcacggatta | cttggttaaaa | agaaccatga | atatgaaatc | aaccatgttg | atgtagcatt | 660 |
| ttcagctttg | catggcaagt | caggtgaaga | tggatccata | caaggtctgt | ttgaattgtc | 720 |
| cggtatccct | tttgtaggct | gcgatattca | aagctcagca | atgtgtatgg | acaaatcggt | 780 |
| gacatacatc | gttcgaaaaa | atgctgggat | agctactccc | gccttttggg | ttattaataa | 840 |
| agatgatagg | ccggtggcag | ctacgtttac | ctatcctggt | tttggttaagc | cggcgcgttc | 900 |
| aggctcatcc | ttcgggtgta | aaaaagtcaa | tagcgcggac | gaattggact | acgcaattga | 960 |
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| cggttgtgcg | gtattgggaa | acagtgccgc | gttagttggt | ggcgaggtgg | accaaatacag | 1080 |
| gctgcagtac | ggaatctttc | gtattcatca | ggaagtcgag | ccggaaaaag | gctctgaaaa | 1140 |
| cgcagttata | accgttcccg | cagacctttc | agcagaggag | cgaggacgga | tacaggaaac | 1200 |
| ggcaaaaaaa | atatataaaag | cgcctcggtg | tagaggtcta | gcccgtgtgg | atatgttttt | 1260 |
| acaagataac | ggccgcattg | tactgaacga | agtcaatact | ctgcccgggt | tcacgtcata | 1320 |
| cagtcgttat | ccccgtatga | tggccgctgc | aggtattgca | cttcccgaac | tgattgaccg | 1380 |
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| gaaatagtac | acggtgttcg | ttgggacgct | aaatatgcca | cttgggataa | tttcaccgga | 1500 |
| aaaccggttg | acggttatga | agtaaatcgc | attgtaggga | catacgagtt | ggctgaatcg | 1560 |
| cttttgagg | caaaagaact | ggctgctacc | caagggtacg | gattgcttct | atgggacggg | 1620 |
| taccgtccta | agcgtgctgt | aaactgtttt | atgcaatggg | ctgcacagcc | ggaaaaataac | 1680 |
| ctgacaaagg | aaagtattta | tcccaatatt | gaccgaactg | agatgatttc | aaaaggatac | 1740 |
| gtggcttcaa | aatcaagcca | tagccgcg | | | | 1768 |

<210> 2

<211> 18

<212> DNA

<213> Enterococcus faecium

<400> 2

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18

<210> 3

<211> 27

<212> DNA

<213> Enterococcus faecium

<400> 3
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<210> 4
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 <212> DNA
 <213> Enterococcus faecium

<400> 4
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 <212> DNA
 <213> Enterococcus faecalis

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 ggtaaaaatcc gcaatagaaa ttgctgcgaa cattaatact gaaaaattcg atccgcacta 180
 catcggaatt acaaaaaacg gcgtatggaa gctatgcaag aagccatgta cggaatggga 240
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 ctgcatgatt caaagctccg cagcttgcag ggacaaatca ctggcctaca ttcttacaaa 480
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 agagaggtga 1090

<210> 6
 <211> 18
 <212> DNA
 <213> Enterococcus faecalis

<400> 6
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<210> 7
 <211> 18
 <212> DNA
 <213> Enterococcus faecalis

<400> 7
 cgcttgctca attaagat 18

<210> 8
 <211> 21
 <212> DNA
 <213> Enterococcus faecalis

<400> 8
 cggcaggaca atatgatgga a 21

<210> 9
 <211> 21
 <212> DNA
 <213> Enterococcus faecalis

<400> 9
 cagcaggaca atatgatgga a

21

<210> 10
 <211> 801
 <212> DNA
 <213> Enterococcus faecium

<400> 10
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 cacccgatat actttctttg ccgtttcctg cacccgattt cgttcctcga ccggaatgtc 120
 tgcgggaact gtaatcatcg cattttctga gcctttttcc ggctcgtttt cctgatggat 180
 gcggaagata ccgtggctca gccggatttg atccacttcg ccgacaatca aatcatcctc 240
 gttccccatg accgcacacc cgacctcaca gcccgaaatc gcttgctcaa ttaagatttt 300
 tccatcatat tgcctgccc cttctatcgc agcgtaaagt tcttccgtac cgtttacttt 360
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 attttttgta agaattgtagg ccagtgtatt gtccatgcaa gctgaggagc tttgaatata 540
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 ggcttcccat tccgtacatg gcttcttgca tagcttccat acaccgtttt ttgtaattcc 780
 gatgtagtgc ggatcgaatt t 801

<210> 11
 <211> 801
 <212> DNA
 <213> Enterococcus faecium

<400> 11
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 cacccgatat actttctttg ccgtttcctg cacccgattt cgttcctcga ccggaatgtc 120
 tgctggaacg ataatcatcg cattctctga gcctttttcc ggctcgtttt cctgatggat 180
 gcggaagata ccgtggctca accggatttg atccacttcg ccgacaatca aatcatcctc 240
 gtttcccatg accgcgcagc cgacctcaca gcccgaaatc gcttgctcaa ttaagatttt 300
 tccatcatat tgcctgctg cttctatcgc agcgtttagt tcttccgtac tgtttacttt 360
 gggttacgcca aaggacgaac ctgaccgtgc cggcttcaca aagacagggt aggtaagcgt 420
 cctcgctcc ggcttgtcac ctttttcaat catttgaaat tcggggacgg cgatgccgcg 480
 attttttgta agaattgtagg ccagtgtatt gtccatgcaa gctgaggagc tttgaatata 540
 gcagcctaca taggggatac cagacaattc aaacagacct tgtatcgac catcctcccc 600
 gcatttgcca tgcaaaaccg ggaaagccac gtcaatacgc cgagtttcgt attctctttc 660
 tttcatgaca agcagaccat gcgttttcct atccggggag aatatggcgg ggagactata 720
 ggcttcccat tccgtacatg gcttcttgca tagcttccat acgccgtttt ttgtaattcc 780
 gatgtagtgc ggatcgaatt t 801

<210> 12
 <211> 801
 <212> DNA
 <213> Enterococcus faecium

<400> 12
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 cacccgatat actttctttg ccgtttcctg cacccgattt cgttcctcga ccggaatgtc 120
 tgcgggaact gtaatcatcg cattttctga gcctttttcc ggctcgtttt cctgatggat 180
 gcggaagata ccgtggctca gccggatttg atccacttcg ccgacaatca aatcatcctc 240
 gttccccatg accgcacacc cgacctcaca gcccgaaatc gcttgctcaa ttaagatttt 300
 tccatcatat tgcctgccc cttctatcgc agcgtaaagt tcttccgtac cgtttacttt 360

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| ggttacgcca | aaggacgaac | ctgaccgtgc | cggcttcaca | aagacagggc | aggtaagcgc | 420 |
| acccgcctcc | ggcttggtcac | ctttatcaat | aatttgaaat | tcgggaacgg | cgatgccgcg | 480 |
| atTTTTgtgta | agaatgtagg | ccagtgaatt | gtccatgcaa | gctgaggagc | tttgaatatc | 540 |
| acagcccaca | taggggatac | cagacaatac | aaacagcccc | tgtatcgcac | catcctcccc | 600 |
| gcatttgcca | tgcaaaaccg | ggaaagccac | atcaatacgc | cgtgtttcgt | attcgctttc | 660 |
| tttcatgaca | agcagcccat | gcgttttcct | atccggggag | agtatggcgg | ggagactgtc | 720 |
| ggcttcccat | tccgtacatg | gcttcttgca | tagcttccat | acaccgtttt | ttgtaattcc | 780 |
| gatgtagtgc | ggatcgaatt | t | | | | 801 |

<210> 13

<211> 801

<212> DNA

<213> Enterococcus faecium

<400> 13

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| aacgatgccg | ccatcctcct | gcaaaaaaag | atcaaacacgg | gcaagccctc | tgcattccaag | 60 |
| cacccgatata | acttttctttg | ccgtttcctg | cacccgatatt | cgttcctcga | ccggaatgtc | 120 |
| tgcggaagact | gtaatcatcg | cattttctga | gcctttttcc | ggctcgtttt | cctgatggat | 180 |
| gcggaagata | ccgtggctca | gccggatttg | atccacttcg | ccgacaatca | aatcatcctc | 240 |
| gttccccatg | accgcacacc | cgacctcaca | gcccgaatc | gcttgctcaa | tttaagatttt | 300 |
| tccatcatat | tgctctgccg | cttctatcgc | agcgtaaagt | tcttccgtac | cgtttacttt | 360 |
| ggttacgcca | aaggacgaac | ctgaccgtgc | cggcttcaca | aagacagggc | aggtaagcgc | 420 |
| acccgcctcc | ggcttggtcac | ctttatcaat | aatttgaaat | tcgggaacgg | cgatgccgcg | 480 |
| atTTTTgtgta | agaatgtagg | ccagtgaatt | gtccatgcaa | gctgaggagc | tttgaatatc | 540 |
| acagcccaca | taggggatac | cagacaatac | aaacagcccc | tgtatcgcac | catcctcccc | 600 |
| gcatttgcca | tgcaaaaccg | ggaaagccac | atcaatacgc | cgtgtttcgt | attcgctttc | 660 |
| tttcatgaca | agcagcccat | gcgttttcct | atccggggag | agtatggcgg | ggagactgtc | 720 |
| ggcttcccat | tccgtacatg | gcttcttgca | tagcttccat | acaccgtttt | ttgtaattcc | 780 |
| gatgtagtgc | ggatcgaatt | t | | | | 801 |

<210> 14

<211> 801

<212> DNA

<213> Enterococcus faecium

<400> 14

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| aacgatgccg | ccatcctcct | gcaaaaaaag | atcaaacacgg | gcaagccctc | tgcattccaag | 60 |
| cacccgatata | acttttctttg | ccgtttcctg | cacccgatatt | cgttcctcga | ccggaatgtc | 120 |
| tgcggaagact | gtaatcatcg | cattttctga | gcctttttcc | ggctcgtttt | cctgatggat | 180 |
| gcggaagata | ccgtggctca | gccggatttg | atccacttcg | ccgacaatca | aatcatcctc | 240 |
| gttccccatg | accgcacacc | cgacctcaca | gcccgaatc | gcttgctcaa | tttaagatttt | 300 |
| tccatcatat | tgctctgccg | cttctatcgc | agcgtaaagt | tcttccgtac | cgtttacttt | 360 |
| ggttacgcca | aaggacgaac | ctgaccgtgc | cggcttcaca | aagacagggc | aggtaagcgc | 420 |
| acccgcctcc | ggcttggtcac | ctttatcaat | aatttgaaat | tcgggaacgg | cgatgccgcg | 480 |
| atTTTTgtgta | agaatgtagg | ccagtgaatt | gtccatgcaa | gctgaggagc | tttgaatatc | 540 |
| acagcccaca | taggggatac | cagacaatac | aaacagcccc | tgtatcgcac | catcctcccc | 600 |
| gcatttgcca | tgcaaaaccg | ggaaagccac | atcaatacgc | cgtgtttcgt | attcgctttc | 660 |
| tttcatgaca | agcagcccat | gcgttttcct | atccggggag | agtatggcgg | ggagactgtc | 720 |
| ggcttcccat | tccgtacatg | gcttcttgca | tagcttccat | acaccgtttt | ttgtaattcc | 780 |
| gatgtagtgc | ggatcgaatt | t | | | | 801 |

<210> 15

<211> 630

<212> DNA

<213> Enterococcus faecalis

<400> 15

| | | | | | | |
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| gaggatgggt | gcattccagg | actgtttgaa | ttgtctggta | tcccctatgt | gggctgtgat | 60 |
| attcaaagct | ccgcagcttg | catggacaaa | tcaactggcct | acattcttac | aaaaaatgcg | 120 |
| ggcatcgccg | ttcccgaatt | tcaaatgatt | gataaagggt | acaagccgga | ggcggtgctg | 180 |
| cttacctacc | ctgtctttgt | gaagccggca | cggtcagggt | cgctcttttg | cgtaacaaaa | 240 |
| gtaaacggta | cggagaagct | taacgctgcy | atagaagcgg | caggacaata | tgatggaaaa | 300 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| atcttaattg | agcaagcgat | ttcgggctgt | gaggtcgggt | gtgcgggtcat | ggggaacgag | 360 |
| gatgatttga | ttgtcggcga | agtggatcaa | atccggctga | gccacggtat | cttccgcac | 420 |
| catcaggaaa | acgagccgga | aaaaggctca | gaaaatgcga | tgattacagt | tcccgcagac | 480 |
| attccggtcg | aggaacgaaa | tcgggtgcag | gaaacggcaa | agaaagtata | tcgggtgctt | 540 |
| ggatgcagag | ggcttgcccc | tgttgatctt | tttttgcagg | aggatggcgg | catcgttcta | 600 |
| aatgaggtca | acaccctgcc | cggcttcacg | | | | 630 |

<210> 16

<211> 783

<212> DNA

<213> Enterococcus faecalis

<400> 16

| | | | | | | |
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| aagccatgta | cgggaatggga | agccgacagt | ctccccgcca | tactctcccc | ggataggaaa | 120 |
| acgcattggtc | tgcttgtcat | gaaagaaaagc | gaatacgaaa | cacggcgtat | tgatgtggct | 180 |
| ttcccagttt | tgcattggcaa | atgcggggag | gacggtgcga | tacagggttt | atttgaattg | 240 |
| tctggcatcc | cctatgtggg | ctgcgatatt | caaagctccg | cagcttgcac | ggacaaatca | 300 |
| ctggcctaca | ttcttacaaa | aaatgcgggc | atcgccgttc | ccgaatttca | aatgattgat | 360 |
| aaaggtgaca | agccggagac | gggtgcgctt | acctaccctg | tctttgtgaa | gccggcacgg | 420 |
| tcaggttcgt | cctttggcct | aaccaaagta | aacggtacgg | aagaacttaa | cgctgcgata | 480 |
| gaagcggcag | gacaatatga | tggaaaaaatc | ttaattgagc | aagcgatttc | gggctgtgag | 540 |
| gtcggctgtg | cgggttatggg | gaacgaggat | gatttgattg | tcggcgaagt | ggatcaaata | 600 |
| cggctgagcc | atggtatctt | ccgcattccat | caggaaaacg | agccggaaaa | aggatcagag | 660 |
| aatgcgatga | ttaccgttcc | tgcagacatc | ccagtcgggg | aacgaaatcg | ggtgcaggaa | 720 |
| acggcaaaaga | aagtatatcg | ggcgcttgga | tgcagagggc | ttgcccgtgt | tgatcttttt | 780 |
| ttg | | | | | | 783 |

<210> 17

<211> 801

<212> DNA

<213> Artificial Sequence

<220>

<223> A synthetic consensus sequence

<400> 17

| | | | | | | |
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| cacccgatat | actttctttg | ccgtttcctg | cacccgattt | cgttcctcga | ccggaatgtc | 120 |
| tgcggggaact | gtaatcatcg | cattttctga | gcctttttcc | ggctcgtttt | cctgatggat | 180 |
| gcggaagata | ccgtgggtca | gccggatttg | atccacttcg | ccgacaatca | aatcatcctc | 240 |
| gttccccatg | accgcacacc | cgacctcaca | gcccgaaatc | gcttgcctca | ttaagatttt | 300 |
| tccatcatat | tgctctgccg | cttctatcgc | agcgtaagt | tcttccgtac | cgtttacttt | 360 |
| ggttacgcc | aaggacgaac | ctgaccgtgc | cggcttcaca | aagacagggt | aggtaagcgc | 420 |
| acccgcctcc | ggcttgctac | ctttatcaat | catttgaaat | tcgggaacgg | cgatgcccg | 480 |
| attttttgta | agaatgtagg | ccagtgtatt | gtccatgcaa | gctgcggagc | tttgaatatc | 540 |
| acagcccaca | taggggatac | cagacaattc | aaacagcccc | tgtatcgcac | catcctcccc | 600 |
| gcatttgcca | tgcaaaacgg | ggaaaagccac | atcaatacgc | cgtgtttcgt | attecgtttc | 660 |
| tttcatgaca | agcagcccat | gcgttttctc | atccggggag | agtatggcgg | ggagactgtc | 720 |
| ggcttcccat | tccgtacatg | gcttcttgca | tagcttccat | acaccgtttt | ttgtaattcc | 780 |
| gatgtagtgc | ggatcgaatt | t | | | | 801 |